

**IN THE SPECIFICATION:**

✓  
On page 2, before the first line, insert the following: ✓ This application is a continuation-  
in-part of application Serial No. 07/313,919<sup>1</sup>, filed February 23, 1989, now abandoned. ✓

**IN THE CLAIMS:**

Please amend claims 1, 12 and 30, and please add new claims 34-36, as detailed below:

1. (Amended) A method of determining the concentrations of a plurality of constituent components of unaltered whole blood of unknown composition, including:

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generating a plurality of substantially monochromatic radiation wavelengths, each wavelength of an absorbance subset of said plurality of wavelengths having been selected by their ability to distinguish the constituent components and having been selected to minimize the effects of radiation scattering and to maximize radiation absorbance by said constituent components, and each wavelength of a scattering subset of said plurality of wavelengths having been selected to maximize the effects of radiation scattering by unaltered whole blood relative to the effects of radiation absorbance by unaltered whole blood;

irradiating a sample of unaltered whole blood of unknown composition with said plurality of radiation wavelengths, through a depth of said sample chosen to minimize radiation scattering by unaltered whole [undiluted] blood;

2  
detecting intensities of said radiation wavelengths, after passing through said depth of said sample, at a distance from said sample, and over a detecting area, both chosen to minimize the effects of radiation scattering by unaltered whole blood on the determination of concentrations of said constituent components; and calculating concentrations of said plurality of constituent components of said sample of unaltered whole blood corrected for the effects of radiation scattering, based upon detected intensities of each of said plurality of radiation wavelengths, and based upon predetermined molar extinction coefficients for each of said constituent components at each of said plurality of radiation wavelengths [of said absorbance subset].

a2  
concl.  
12. (Amended) The method of claim 11, each one of said quadruple of radiation wavelengths [each] being within the range of 510 to 630 nanometers.

a3  
30. (Amended) The method of claim 29, each one of said quadruple of radiation wavelengths [each] being within the range of 510 to 630 nanometers.

a4  
--34. The method of claim 20, said correcting step comprising, correcting said calculated concentrations of constituent components as a function of wavelength.--

a5  
--35. The method of claim 23, said correcting step comprising,